

START

0029694¹⁴

ENGINEERING CHANGE NOTICE

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1. ECN 197977

Proj.
ECN


2. ECN Category (mark one)		Supplemental <input type="checkbox"/>	Change ECN <input type="checkbox"/>	Supersedure <input type="checkbox"/>
Cancel/Void <input type="checkbox"/>		Direct Revision <input checked="" type="checkbox"/>	Temporary <input type="checkbox"/>	Discovery <input type="checkbox"/>
3. Originator's Name, Organization, MSIN, and Telephone No. B.E. Innis 200/300 Area Environmental Engineering H6-03, 2-3670				4. Date <u>March 3, 1993</u> <u>July 7,</u>
5. Project Title/No./Work Order No. Data Validation Summary Report 300-FF-5 Round 4 Groundwater (All Fractions)		6. Bldg./Sys./Fac. No. <u>NA</u>		7. Impact Level <u>4</u>
8. Document Number Affected (include rev. and sheet no.) WHC-SD-EN-TI-107, Rev. 0		9. Related ECN No(s).		10. Related PO No.
11a. Modification Work <input type="checkbox"/> Yes (fill out Blk. 11b) <input checked="" type="checkbox"/> No (NA Blks. 11b, 11c, 11d)	11b. Work Package Doc. No. <u>NA</u>	11c. Complete Installation Work <u>NA</u> _____ Cog. Engineer Signature & Date	11d. Complete Restoration (Temp. ECN only) <u>NA</u> _____ Cog. Engineer Signature & Date	
12. Description of Change Text changes on page 2-10, and data qualifier changes in table 2.1 on pages 2-12 through 2-19.				
				
13a. Justification (mark one)		Criteria Change <input type="checkbox"/>	Environmental <input type="checkbox"/>	Facilitate Const. <input type="checkbox"/>
Design Error/Omission <input type="checkbox"/>		Design Improvement <input type="checkbox"/>	As-Found <input checked="" type="checkbox"/>	Const. Error/Omission <input type="checkbox"/>
13b. Justification Details Additional review by the Senior Validator with Hart Crowser/Ebasco indicated incorrectly qualified data in the original release.				
14. Distribution (include name, MSIN, and no. of copies) L. C. Hulstrom (H6-03, 15 copies), EDMC (H6-08, <u>2</u> copies), Central Files (L8-04, 1 copy) (2 copies) ERC (H6-06, 1 copy)			RELEASE STAMP OFFICIAL RELEASE 11 BY WHC DATE JUL 21 1993 <u>Station #12</u>	

Table 2-1. 300-FF-5 Operable Unit Remedial Investigation
Round 4 Groundwater Volatile Organic Compounds
Analysis and Qualifier Summary

Sheet 8 of 8

Sample No.	B07P83 Trip Blank	*B07P82	B07P79 Trip Blank	B07P78	B07P67 Trip Blank	B07P66
300-FF-5 Compounds of Concern:						
	$\mu\text{g/L}$	$\mu\text{g/L}$	$\mu\text{g/L}$	$\mu\text{g/L}$	$\mu\text{g/L}$	$\mu\text{g/L}$
Methylene Chloride	10 U	10 U	10 U	10 U	10 UJ	10 U
1,2-Dichloroethene	10 U	10 U	10 U	10 U	10 UJ	10 U
Trichloroethene	10 U	6 J	10 U	2 J	10 UJ	10 U
Tetrachloroethene	10 U	10 U	10 U	10 U	10 UJ	10 U
Vinyl chloride	10 U	10 U	10 U	10 U	10 UJ	10 U
Additional Compounds Originally Detected in Sample:						
Acetone	NR	NR	NR	NR	NR	NR
Chloroform	NR	NR	NR	5 J	NR	6 J
Benzene	NR	NR	NR	NR	NR	10 U
Toluene	NR	NR	NR	NR	NR	NR

NR - not reported as detected

* - fully validated sample

JOBS1297501GW42-1.WK1

ENGINEERING CHANGE NOTICE

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1. ECN (use no. from pg. 1)

197977

15. Design Verification Required

☐ Yes
☒ No

16. Cost Impact

ENGINEERING

 Additional ☐ \$
 Savings ☐ \$

CONSTRUCTION

 Additional ☐ \$
 Savings ☐ \$

17. Schedule Impact (days)

 Improvement ☐
 Delay ☐

18. Change Impact Review: Indicate the related documents (other than the engineering documents identified on Side 1) that will be affected by the change described in Block 12. Enter the affected document number in Block 19.

SDD/DD	<input type="checkbox"/>	Seismic/Stress Analysis	<input type="checkbox"/>	Tank Calibration Manual	<input type="checkbox"/>
Functional Design Criteria	<input type="checkbox"/>	Stress/Design Report	<input type="checkbox"/>	Health Physics Procedure	<input type="checkbox"/>
Operating Specification	<input type="checkbox"/>	Interface Control Drawing	<input type="checkbox"/>	Spares Multiple Unit Listing	<input type="checkbox"/>
Criticality Specification	<input type="checkbox"/>	Calibration Procedure	<input type="checkbox"/>	Test Procedures/Specification	<input type="checkbox"/>
Conceptual Design Report	<input type="checkbox"/>	Installation Procedure	<input type="checkbox"/>	Component Index	<input type="checkbox"/>
Equipment Spec.	<input type="checkbox"/>	Maintenance Procedure	<input type="checkbox"/>	ASME Coded Item	<input type="checkbox"/>
Const. Spec.	<input type="checkbox"/>	Engineering Procedure	<input type="checkbox"/>	Human Factor Consideration	<input type="checkbox"/>
Procurement Spec.	<input type="checkbox"/>	Operating Instruction	<input type="checkbox"/>	Computer Software	<input type="checkbox"/>
Vendor Information	<input type="checkbox"/>	Operating Procedure	<input type="checkbox"/>	Electric Circuit Schedule	<input type="checkbox"/>
OM Manual	<input type="checkbox"/>	Operational Safety Requirement	<input type="checkbox"/>	ICRS Procedure	<input type="checkbox"/>
FSAR/SAR	<input type="checkbox"/>	IEFD Drawing	<input type="checkbox"/>	Process Control Manual/Plan	<input type="checkbox"/>
Safety Equipment List	<input type="checkbox"/>	Cell Arrangement Drawing	<input type="checkbox"/>	Process Flow Chart	<input type="checkbox"/>
Radiation Work Permit	<input type="checkbox"/>	Essential Material Specification	<input type="checkbox"/>	Purchase Requisition	<input type="checkbox"/>
Environmental Impact Statement	<input type="checkbox"/>	Fac. Proc. Samp. Schedule	<input type="checkbox"/>		<input type="checkbox"/>
Environmental Report	<input checked="" type="checkbox"/>	Inspection Plan	<input type="checkbox"/>		<input type="checkbox"/>
Environmental Permit	<input type="checkbox"/>	Inventory Adjustment Request	<input type="checkbox"/>		<input type="checkbox"/>

19. Other Affected Documents: (NOTE: Documents listed below will not be revised by this ECN.) Signatures below indicate that the signing organization has been notified of other affected documents listed below.

Document Number/Revision

Document Number/Revision

Document Number Revision

NA

20. Approvals

Signature	Date	Signature	Date
OPERATIONS AND ENGINEERING		ARCHITECT-ENGINEER	
Cog./Project Engineer <i>L.C. Hulstrom</i>	7/8/93	PE	
Cog./Project Engr. Mgr. <i>R.A. Carlson</i>	7/8/93	QA	
QA		Safety	
Safety		Design	
Security		Other	
Proj. Prog./Dept. Mgr.			
Def. React. Div.			
Chem. Proc. Div.			
Def. Mst. Mgmt. Div.			
Adv. React. Dev. Div.			
Proj. Dept.			
Environ. Div.			
IRM Dept.			
Facility Rep. (Ops.)			
Other			

DEPARTMENT OF ENERGY

ADDITIONAL

42915/657165

Table 2-1. 300-FF-5 Operable Unit Remedial Investigation
Round 4 Groundwater Volatile Organic Compounds
Analysis and Qualifier Summary

Sheet 7 of 8

Sample No.	*B07P94	B07P89 Trip Blank	B07P88	B07P87 Trip Blank	B07P86	B07P85 Trip Blank	B07P84
300-FF-5 Compounds of Concern:							
	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
Methylene Chloride	10 U	10 U	10 U	10 U	10 U	10 UJ	10 U
1,2-Dichloroethene	10 U	10 U	10 U	10 U	10 U	10 UJ	10 U
Trichloroethene	5 J	10 U	10 U	10 U	4 J	10 UJ	5 J
Tetrachloroethene	10 U	10 U	10 U	10 U	10 U	10 UJ	10 U
Vinyl chloride	10 U	10 U	10 U	10 U	10 U	10 UJ	10 U
Additional Compounds Originally Detected in Sample:							
Acetone	NR	NR	NR	NR	NR	NR	NR
Chloroform	NR	NR	3 J	NR	2 J	NR	11
Benzene	NR	NR	NR	NR	NR	NR	NR
Toluene	NR	NR	NR	NR	NR	NR	NR

NR - not reported as detected

* - fully validated sample

SUPPORTING DOCUMENT		1. Total Pages 51
2. Title Data Validation Summary Report--Groundwater 300-FF-5 Operable Unit	3. Number WHC-SD-EN-TI-107	4. Rev No. 0-A
5. Key Words APPROVED FOR PUBLIC RELEASE 7/19/93 W. Solis	6. Author Name: L. C. Hulstrom <i>Rh Carlson for L.C. Hulstrom</i> Signature Organization/Charge Code 81320 / P2SAE	
7. Abstract Hulstrom, L.C., Data Validation Summary Report--Groundwater 300-FF-5 Operable Unit, WHC-SD-EN-TI-107, Rev. 0, Westinghouse Hanford Company, Richland, Washington.		
8. PURPOSE AND USE OF DOCUMENT - This document was prepared for use within the U.S. Department of Energy and its contractors. It is to be used only to perform, direct, or integrate work under U.S. Department of Energy contracts. This document is not approved for public release until reviewed. PATENT STATES - This document copy, since it is transmitted in advance of patent clearance, is made available in confidence solely for use in performance of work under contracts with the U.S. Department of Energy. This document is not to be published nor its contents otherwise disseminated or used for purposes other than specified above before patent approval for such release or use has been secured, upon request, from the Patent Counsel, U.S. Department of Energy Field Office, Richland, WA. DISCLAIMER - This report was prepared as an account of work sponsored by an agency of the United States Government. Neither the United States Government nor any agency thereof, nor any of their employees, nor any of their contractors, subcontractors or their employees, makes any warranty, express or implied, or assumes any legal liability or responsibility for the accuracy, completeness, or any third party's use or the results of such use of any information, apparatus, product, or process disclosed, or represents that its use would not infringe privately owned rights. Reference herein to any specific commercial product, process, or service by trade name, trademark, manufacturer, or otherwise, does not necessarily constitute or imply its endorsement, recommendation, or favoring by the United States Government or any agency thereof or its contractors or subcontractors. The views and opinions of authors expressed herein do not necessarily state or reflect those of the United States Government or any agency thereof.		10. RELEASE STAMP <div style="border: 1px solid black; padding: 5px; text-align: center;"> OFFICIAL RELEASE 11 BY WHC DATE JUL 21 1993 <i>Station # 12</i> </div>
9. Impact Level 4		

Table 2-1. 300-FF-5 Operable Unit Remedial Investigation
Round 4 Groundwater Volatile Organic Compounds
Analysis and Qualifier Summary

Sheet 6 of 8

Sample No.	B07PB7 Trip Blank	*B07PB6	B07PB5 Trip Blank	*B07PB4	B07P99 Trip Blank	*B07P98	B07P95 Trip Blank
300-FF-5 Compounds of Concern:							
	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
Methylene Chloride	25 U	10 U	10 UJ	10 U	10 U	10 U	10 U
1,2-Dichloroethene	10 U	10 U	10 UJ	10 U	10 U	10 U	10 U
Trichloroethene	10 U	7 J	10 UJ	4 J	10 U	4 J	10 U
Tetrachloroethene	10 U	10 U	10 UJ	10 U	10 U	10 U	10 U
Vinyl chloride	10 U	10 U	10 UJ	10 U	10 U	10 U	10 U
Additional Compounds Originally Detected in Sample:							
Acetone	NR	NR	NR	NR	NR	NR	NR
Chloroform	1 J	8 J	NR	9 J	NR	5 J	NR
Benzene	3 J	4 J	2 J	NR	NR	NR	NR
Toluene	NR	NR	NR	NR	NR	NR	NR

NR - not reported as detected

* - fully validated sample

92915/62166


Date Received 7/19/93		INFORMATION RELEASE REQUEST		Reference: WHC-CM-3-4	
Complete for all Types of Release					
Purpose <input type="checkbox"/> Speech or Presentation <input type="checkbox"/> Full Paper <input type="checkbox"/> Summary <input type="checkbox"/> Abstract <input type="checkbox"/> Visual Aid <input type="checkbox"/> Speakers Bureau <input type="checkbox"/> Poster Session <input type="checkbox"/> Videotape (Check only one suffix)			<input type="checkbox"/> Reference <input checked="" type="checkbox"/> Technical Report <input type="checkbox"/> Thesis or Dissertation <input type="checkbox"/> Manual <input type="checkbox"/> Brochure/Flier <input type="checkbox"/> Software/Database <input type="checkbox"/> Controlled Document <input type="checkbox"/> Other		
ID Number (include revision, volume, etc.) WHC-SD-EN-TI-107, Rev. 02			List attachments. N/A		
Date Release Required 7/12/93					
Title Data Validation Summary Report--Groundwater 300-FF-5 Operable Unit			Unclassified Category UC-630		Impact Level 4
New or novel (patentable) subject matter? <input checked="" type="checkbox"/> No <input type="checkbox"/> Yes If "Yes", has disclosure been submitted by WHC or other company? <input type="checkbox"/> No <input type="checkbox"/> Yes Disclosure No(s).			Information received from others in confidence, such as proprietary data, trade secrets, and/or inventions? <input checked="" type="checkbox"/> No <input type="checkbox"/> Yes (Identify)		
Copyrights? <input checked="" type="checkbox"/> No <input type="checkbox"/> Yes If "Yes", has written permission been granted? <input type="checkbox"/> No <input type="checkbox"/> Yes (Attach Permission)			Trademarks? <input checked="" type="checkbox"/> No <input type="checkbox"/> Yes (Identify)		
Complete for Speech or Presentation					
Title of Conference or Meeting N/A			Group or Society Sponsoring		
Date(s) of Conference or Meeting		City/State		Will proceedings be published? <input type="checkbox"/> Yes <input type="checkbox"/> No Will material be handed out? <input type="checkbox"/> Yes <input type="checkbox"/> No	
Title of Journal					
CHECKLIST FOR SIGNATORIES					
Review Required per WHC-CM-3-4		Yes	No	Reviewer - Signature Indicates Approval	
				Name (printed)	Signature Date
Classification/Unclassified Controlled Nuclear Information		<input type="checkbox"/>	<input checked="" type="checkbox"/>	S. W. Berglin	per OGC memo 2/4/93 mKnight 7-9-93
Patent - General Counsel		<input checked="" type="checkbox"/>	<input type="checkbox"/>	S. W. Berglin	"
Legal - General Counsel		<input checked="" type="checkbox"/>	<input type="checkbox"/>		
Applied Technology/Export Controlled Information or International Program		<input type="checkbox"/>	<input checked="" type="checkbox"/>		
WHC Program/Project		<input type="checkbox"/>	<input checked="" type="checkbox"/>		
Communications		<input type="checkbox"/>	<input checked="" type="checkbox"/>		
RL Program/Project		<input checked="" type="checkbox"/>	<input type="checkbox"/>	R. G. McLeod	Review not required per telecom R. G. Hulstrom 7/15/93
Publication Services		<input checked="" type="checkbox"/>	<input type="checkbox"/>	mKnight	mKnight 7-16-93
Other Program/Project		<input type="checkbox"/>	<input checked="" type="checkbox"/>		
Information conforms to all applicable requirements. The above information is certified to be correct.					
References Available to Intended Audience		Yes	No	INFORMATION RELEASE ADMINISTRATION APPROVAL STAMP	
<input checked="" type="checkbox"/>		<input type="checkbox"/>	Stamp is required before release. Release is contingent upon resolution of mandatory comments.		
Transmit to DOE-HQ/Office of Scientific and Technical Information		<input type="checkbox"/>	<input checked="" type="checkbox"/>		
Author/Requestor (Printed/Signature)		Date			
L. C. Hulstrom		<i>L. C. Hulstrom</i>	7/15/93		
Intended Audience					
<input type="checkbox"/> Internal <input type="checkbox"/> Sponsor <input checked="" type="checkbox"/> External					
Responsible Manager (Printed/Signature)		Date			
R. A. Carlson		<i>R. A. Carlson</i>	7/15/93	Date Cancelled	
				Date Disapproved	

Table 2-1. 300-FF-5 Operable Unit Remedial Investigation
Round 4 Groundwater Volatile Organic Compounds
Analysis and Qualifier Summary

Sheet 5 of 8

Sample No.	B07PD8 Equip. Blank	B07PD7 Equip. Blank	B07PD6 Equip. Blank	B07PC5 Trip Blank	B07PC4	B07PC3 Trip Blank	B07PC2
300-FF-5 Compounds of Concern:							
	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
Methylene Chloride	10 U	10 UJ	10 U	10 U	10 U	10 UJ	10 U
1,2-Dichloroethene	10 U	10 UJ	10 U	10 U	10 U	10 UJ	10 U
Trichloroethene	10 U	10 UJ	10 U	10 U	10 U	10 UJ	2 J
Tetrachloroethene	10 U	10 UJ	10 U	10 U	10 U	10 UJ	10 U
Vinyl chloride	10 U	10 UJ	10 U	10 U	10 U	10 UJ	10 U
Additional Compounds Originally Detected in Sample:							
Acetone	NR	NR	NR	NR	NR	NR	NR
Chloroform	NR	NR	NR	NR	NR	NR	NR
Benzene	10 U	NR	NR	NR	NR	1 J	2 J
Toluene	NR	NR	NR	NR	NR	NR	NR

NR - not reported as detected

* - fully validated sample

9312975.1627

RECORD OF REVISION		(1) Document Number		Page 1
(2) Title Data Validation Summary Report - Groundwater 300-FF-5 Operable Unit				
CHANGE CONTROL RECORD				
(3) Revision	(4) Description of Change - Replace, Add, and Delete Pages	Authorized for Release		
		(5) Cog. Engr.	(6) Cog. Mgr.	Date
0	Initial release EDT 142912	L.C. Hulstrom	R.A. Carlson	7/7/93
0-A RS	Replace text on page 2-12 and tables on pages 2-12 through 2-19 with revised text and tables (designated Rev. 0-A). Per ECN 197977.	<i>LC Hulstrom</i> 7/7/93 L. C. Hulstrom	<i>Subj. signed</i> FOR R.A. CARLSON R. A. Carlson	

Table 2-1. 300-FF-5 Operable Unit Remedial Investigation
Round 4 Groundwater Volatile Organic Compounds
Analysis and Qualifier Summary

Sheet 4 of 8

Sample No.	B07PD3 Field Dup #1	*B07PD4 Field Dup #2	B07PD5 Field Dup #2	B07PF1 Method Blank	B07PF0 Method Blank	B07PD9 Method Blank
300-FF-5 Compounds of Concern:						
	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
Methylene Chloride	10 UJ	10 U	10 U	10 U	10 U	10 U
1,2-Dichloroethene	10 UJ	130	10 U	10 U	10 U	10 U
Trichloroethene	10 UJ	11	10 U	10 U	10 U	10 U
Tetrachloroethene	10 UJ	10 U	10 U	10 U	10 U	10 U
Vinyl chloride	10 UJ	10 U	10 U	10 U	10 U	10 U
Additional Compounds Originally Detected in Sample:						
Acetone	12 UJ	13 U	17 U	NR	NR	NR
Chloroform	NR	NR	NR	NR	NR	NR
Benzene	NR	NR	NR	NR	NR	10 U
Toluene	NR	NR	NR	NR	NR	NR

NR - not reported as detected

* - fully validated sample

reviewing other factors relating to analytical sensitivity (e.g., relative response factors, detection limits, linearity, analytical recovery).

All compound identifications were confirmed by the validator. There were no tentatively identified compounds (TICs) detected in these samples.

2.8 COMPOUND QUANTIFICATION AND REPORTED DETECTION LIMITS

Compound quantifications and reported detection limits were recalculated for the samples specified by Westinghouse Hanford for each case to verify that they were accurate and consistent with CLP requirements. The calculations were consistent with the reported results. Therefore, no changes or qualifications were made based on the calculations.

Below the CRQL, instrument precision becomes more variable as the instrument detection limit (IDL) is approached. Therefore, the concentration of compounds detected below the CRQL were qualified as estimates (J).

2.9 SYSTEM PERFORMANCE ACCEPTABLE

A thorough review of ongoing data acquisition and instrument performance criteria was made to assess overall GC/MS instrument performance. No changes in instrument performance were noted that would result in the degradation of data quality. No indications of unacceptable instrument performance (i.e., shifts in baseline stability, retention time shifts, extraneous peaks, sensitivity) were found during the quality assurance review.

2.10 CHANGES MADE SINCE PRELIMINARY REPORT

Data qualifier assignments and documentation were reviewed by a senior validator and a technical reviewer. The following changes were made after the submittal of the Preliminary QA Reports:

- ▶ In the preliminary QA reports methylene chloride and acetone values for several samples and equipment blanks were qualified as undetected due to laboratory method blank contamination. Due to additional quality control deficiencies these should have been qualified as estimates as well (UJ). The following samples were affected:

- B07P69	- B07P81
- B07P71	- B07P93
- B07P77	- B07PD3

Table 2-1. 300-FF-5 Operable Unit Remedial Investigation
Round 4 Groundwater Volatile Organic Compounds
Analysis and Qualifier Summary

Sheet 3 of 8

Sample No.	*B07P92	B07P93	B07PB2	B07PB3	B07PC6	B07PC7	*B07PD2
		Trip Blank		Trip Blank		Trip Blank	Field Dup #1
300-FF-5 Compounds of Concern:							
	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
Methylene Chloride	10 U	10 UJ	10 U	10 U	10 U	10 U	10 U
1,2-Dichloroethene	10 U	10 UJ	10 U	10 U	10 U	10 U	10 U
Trichloroethene	3 J	10 UJ	2 J	10 U	10 U	10 U	3 J
Tetrachloroethene	10 U	10 UJ	10 U	10 U	10 U	10 U	10 U
Vinyl chloride	10 U	10 UJ	10 U	10 U	10 U	10 U	10 U
Additional Compounds Originally Detected in Sample:							
Acetone	NR	NR	NR	NR	NR	NR	10 U
Chloroform	6 J	NR	3 J	NR	NR	NR	5 J
Benzene	NR	NR	NR	NR	NR	NR	NR
Toluene	NR	NR	NR	NR	NR	NR	NR

NR - not reported as detected

* - fully validated sample

Table 2-1. 300-FF-5 Operable Unit Remedial Investigation
Round 4 Groundwater Volatile Organic Compounds
Analysis and Qualifier Summary

Sheet 1 of 8

Sample No.	*B07P68	*B07P68RE	*B07P69 Trip Blank	*B07P70	*B07P70RE	B07P71 Trip Blank	*B07P72	B07P72RE
300-FF-5 Compounds of Concern:								
	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
Methylene Chloride	10 U	2 U	10 UJ	10 U	2 U	10 UJ	10 U	2 U
1,2-Dichloroethene	10 U	2 U	10 UJ	130	150	10 UJ	10 U	2 U
Trichloroethene	3 J	3	10 UJ	10	11	10 UJ	10 U	2 U
Tetrachloroethene	10 U	2 U	10 UJ	10 U	2 U	10 UJ	10 U	2 U
Vinyl chloride	10 U	2 U	10 UJ	10 U	2 U	10 UJ	10 U	2 U
Additional Compounds Originally Detected in Sample:								
Acetone	10 U	NR	NR	NR	NR	NR	NR	NR
Chloroform	5 J	5	NR	NR	NR	NR	NR	NR
Benzene	NR	NR	NR	NR	NR	NR	NR	NR
Toluene	NR	NR	NR	NR	NR	NR	NR	NR

NR - not reported as detected

* - fully validated sample

Table 2-1. 300-FF-5 Operable Unit Remedial Investigation
Round 4 Groundwater Volatile Organic Compounds
Analysis and Qualifier Summary

Sheet 2 of 8

Sample No.	B07P73 Trip Blank	*B07P74	B07P75 Trip Blank	B07P76	B07P77 Trip Blank	B07P80	*B07P81 Trip Blank
300-FF-5 Compounds of Concern:	$\mu\text{g/L}$	$\mu\text{g/L}$	$\mu\text{g/L}$	$\mu\text{g/L}$	$\mu\text{g/L}$	$\mu\text{g/L}$	$\mu\text{g/L}$
Methylene Chloride	10 U	10 U	10 U	10 U	10 UJ	10 U	10 UJ
1,2-Dichloroethene	10 U	6 J	10 U	10 U	10 UJ	10 U	10 UJ
Trichloroethene	10 U	10 U	10 U	1 J	10 UJ	3 J	10 UJ
Tetrachloroethene	10 U	10 U	10 U	10 U	10 UJ	10 U	10 UJ
Vinyl chloride	10 U	10 U	10 U	10 U	10 UJ	10 U	10 UJ
Additional Compounds Originally Detected in Sample:							
Acetone	NR	10 U	NR	10 U	10 UJ	10 U	NR
Chloroform	NR	NR	NR	4 J	NR	5 J	NR
Benzene	NR	NR	NR	NR	NR	NR	NR
Toluene	NR	4 J	NR	NR	NR	NR	NR

NR - not reported as detected

* - fully validated sample